

100  
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# Flowchart Symbols (standard)

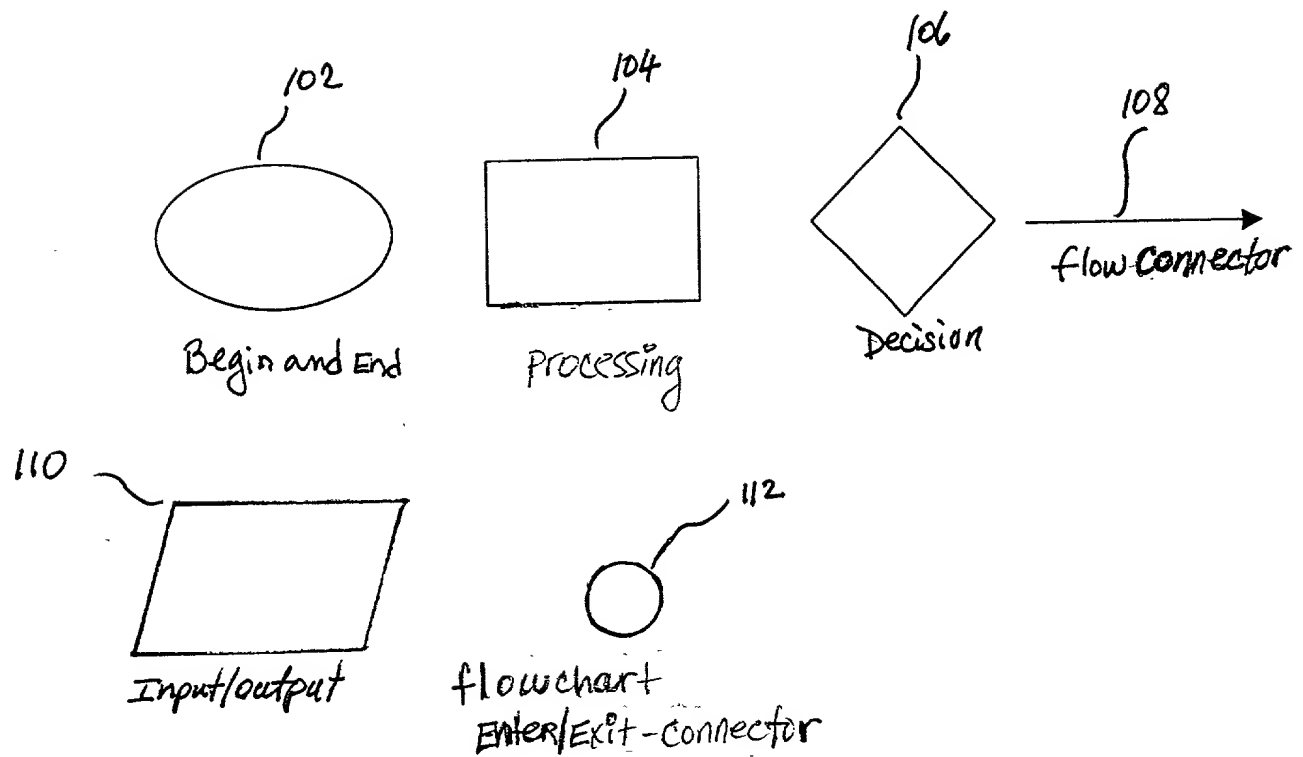


FIGURE 1 (Prior Art)

## Routing

Server: FOXRPT  
 Name /ver /var: COLONY 1.4  
 plan\_id: 381eeab4  
 Last edit date: 05/23/2000  
 Last edit time: 09:57:17

PLAN_ID	PPO_ID	PPO_NEXT_PATH_ID	NEXT_PPO_ID	PATH_DESC
381eeab4	01 BRD INGATE	OK	02 BENCH MET TST	BENCH METER TEST
381eeab4	02 BENCH MET TST	OK	03 STENCIL BOT	Stencil Bottomside
381eeab4	03 STENCIL BOT	OK	04 PASTE VISUAL	Solder Paste Visual Inspect
381eeab4	04 PASTE VISUAL	NOT OK	03 STENCIL BOT	Clean and Re-stencil Bottomside
381eeab4	04 PASTE VISUAL	OK	05 BOTTOMSIDE	Bottomside Placement and Reflow
381eeab4	05 BOTTOMSIDE	OK	06 AUTO INSPECT	AUTO INSPECT BOTTOMSIDE
381eeab4	06 AUTO INSPECT	OK	07 BENCH MET TST	BENCH METER TEST
381eeab4	07 BENCH MET TST	OK	08 STENCIL TOP	STENCIL TOPSIDE
381eeab4	07 BENCH MET TST	BENCHRWK	29 BENCH_REWORK	BENCH REWORK METER TEST
381eeab4	08 STENCIL TOP	OK	09 PASTE_MEASURE	Paste Measure Topside
381eeab4	09 PASTE_MEASURE	NOT_OK	08 STENCIL TOP	Clean and Re-stencil Topside
381eeab4	09 PASTE_MEASURE	OK	10 TOPSIDE	Topside Place and Reflow
381eeab4	10 TOPSIDE	OK	11 AUTO INSPECT	AUTO INSPECT TOPSIDE
381eeab4	11 AUTO INSPECT	OK	11 BENCH MET TST	BENCH METER TEST
381eeab4	11 BENCH MET TST	OK	12 PIH_INSERT	Pin In Hole Insert and Inspect
381eeab4	11 BENCH MET TST	NOT_OK	39 BENCH_REWORK	Bench Rework -11_Bench_Met_Tst Fail
381eeab4	12 PIH_INSERT	OK	13 SOLDER_DIWASH	Solder Di-Wash
381eeab4	13 SOLDER_DIWASH	OK	14 XRAY	Xray and Xray Analysis
381eeab4	14 XRAY	OK	19 AUTO INSPECT	AUTO INSPECT
381eeab4	14 XRAY	DEVICE	39 AIR_VAC	Air Vac Repair
381eeab4	14 XRAY	FOUNTAIN	39 SOLDER_FOUNT	Solder Fountain Repair
381eeab4	19 AUTO INSPECT	OK	20 INSPECT	MANUAL INSPECT
381eeab4	19 AUTO INSPECT	DEVICE	39 AIR_VAC	AIR VAC REPAIR
381eeab4	19 AUTO INSPECT	FOUNTAIN	39 SOLDER_FOUNT	SOLDER FOUNTAIN REPAIR
381eeab4	20 INSPECT	RETRY	19 AUTO INSPECT	AUTO RE INSPECT
381eeab4	20 INSPECT	OK	30 HEAT_SINK_ATT	Heat Sink Attach
381eeab4	20 INSPECT	DEVICE	39 AIR_VAC	AIR VAC
381eeab4	20 INSPECT	FOUNTAIN	39 SOLDER_FOUNT	SOLDER FOUNTAIN
381eeab4	20 INSPECT	TEST	40 INCIRCUIT_TST	INCIRCUIT TEST
381eeab4	29 BENCH_REWORK	NOT_OK	29 TIA	Thermal Image Meter Test Fail
381eeab4	30 HEAT_SINK_ATT	OK	31 RTV_ADD	RTV_ADD
381eeab4	31 RTV_ADD	OK	35 HDWARE_ASM_IN	HARDWARE ASSEMBLY AND INSPECT
381eeab4	35 HDWARE_ASM_IN	OK	40 INCIRCUIT_TST	Incircuit Test
381eeab4	39 AIR_VAC	OK	20 INSPECT	INSPECT
381eeab4	39 BENCH_REWORK	OK	11 BENCH_MET_TST	Bench Meter Re-test
381eeab4	39 DEBUG	DEVICE	39 AIR_VAC	AIR VAC
381eeab4	39 DEBUG	RETRY	39 BENCH_REWORK	BENCH REWORK
381eeab4	39 DEBUG	FOUNTAIN	39 SOLDER_FOUNT	SOLDER FOUNTAIN
381eeab4	39 DEBUG	TEST	40 INCIRCUIT_TST	INCIRCUIT TEST
381eeab4	39 SOLDER_FOUNT	FOUNTAIN	39 XRAY	XRAY (use for STI connectors and BER STIK)
381eeab4	39 XRAY	OK	20 INSPECT	Re-Inspect Board
381eeab4	39 XRAY	FOUNTAIN	39 SOLDER_FOUNT	Solder Fountain Repair
381eeab4	40 INCIRCUIT_TST	DEVICE	39 AIR_VAC	AIR VAC
381eeab4	40 INCIRCUIT_TST	NOT_OK	39 BENCH_REWORK	BENCH REWORK
381eeab4	40 INCIRCUIT_TST	TEST	39 DEBUG	DEBUG
381eeab4	40 INCIRCUIT_TST	FOUNTAIN	39 SOLDER_FOUNT	SOLDER FOUNTAIN
381eeab4	40 INCIRCUIT_TST	OK	41_FUNC_TEST	FUNCTIONAL TEST
381eeab4	41_FUNC_TEST	DEVICE	39 AIR_VAC	AIR VAC
381eeab4	41_FUNC_TEST	RETRY	39 BENCH_REWORK	BENCH REWORK
381eeab4	41_FUNC_TEST	TEST	39 DEBUG	DEBUG
381eeab4	41_FUNC_TEST	FOUNTAIN	39 SOLDER_FOUNT	SOLDER FOUNT
381eeab4	41_FUNC_TEST	OK	60_PACK	pack
381eeab4	60_PACK	OK	65_PC_STOCK	PC STOCK
381eeab4	65_PC_STOCK	END		

Figure 2

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01\_BRD\_INGATE

02\_BENCH\_MET\_TST

03\_STENCIL\_BOT

{04\_PASTE\_VISUAL}

05\_BOTTOMSIDE

06\_AUTO\_INSPECT

{07\_BENCH\_MET\_TST}

-08\_STENCIL\_TOP

{09\_PASTE\_MEASURE}

-10\_TOPSIDE

11\_AUTO\_INSPECT

{11\_BENCH\_MET\_TST}

-12\_PIH\_INSERT

13\_SOLDER\_DIWASH

{14\_XRAY}

-19\_AUTO\_INSPECT

-20\_INSPECT

-30\_HEAT\_SINK\_ATT

31\_RTV\_ADD

35\_HDWARE\_ASM\_IN

\*40\_INCIRCUIT\_TST

-40\_INCIRCUIT\_TST

-39\_DEBUG

-40\_INCIRCUIT\_TST

-39\_SOLDER\_FOUNT

-39\_BENCH\_REWORK

-39\_AIR\_VAC

-41\_FUNC\_TEST

-60\_PACK

65\_PC\_STOCK

-39\_SOLDER\_FOUNT

-39\_DEBUG

-39\_BENCH\_REWORK

\*-39\_AIR\_VAC

-39\_SOLDER\_FOUNT

-39\_BENCH\_REWORK

\*-39\_AIR\_VAC

-39\_SOLDER\_FOUNT

-39\_AIR\_VAC

-19\_AUTO\_INSPECT

-39\_SOLDER\_FOUNT

\*-39\_AIR\_VAC

-39\_AIR\_VAC

\*20\_INSPECT

\*-39\_SOLDER\_FOUNT

{39\_XRAY}

-39\_SOLDER\_FOUNT

\*-20\_INSPECT

\*-39\_BENCH\_REWORK

\*11\_BENCH\_MET\_TST

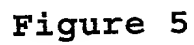
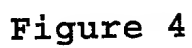
\*-08\_STENCIL\_TOP

\*-29\_BENCH\_REWORK

29\_TIA

\*-03\_STENCIL\_BOT

FIGURE 3



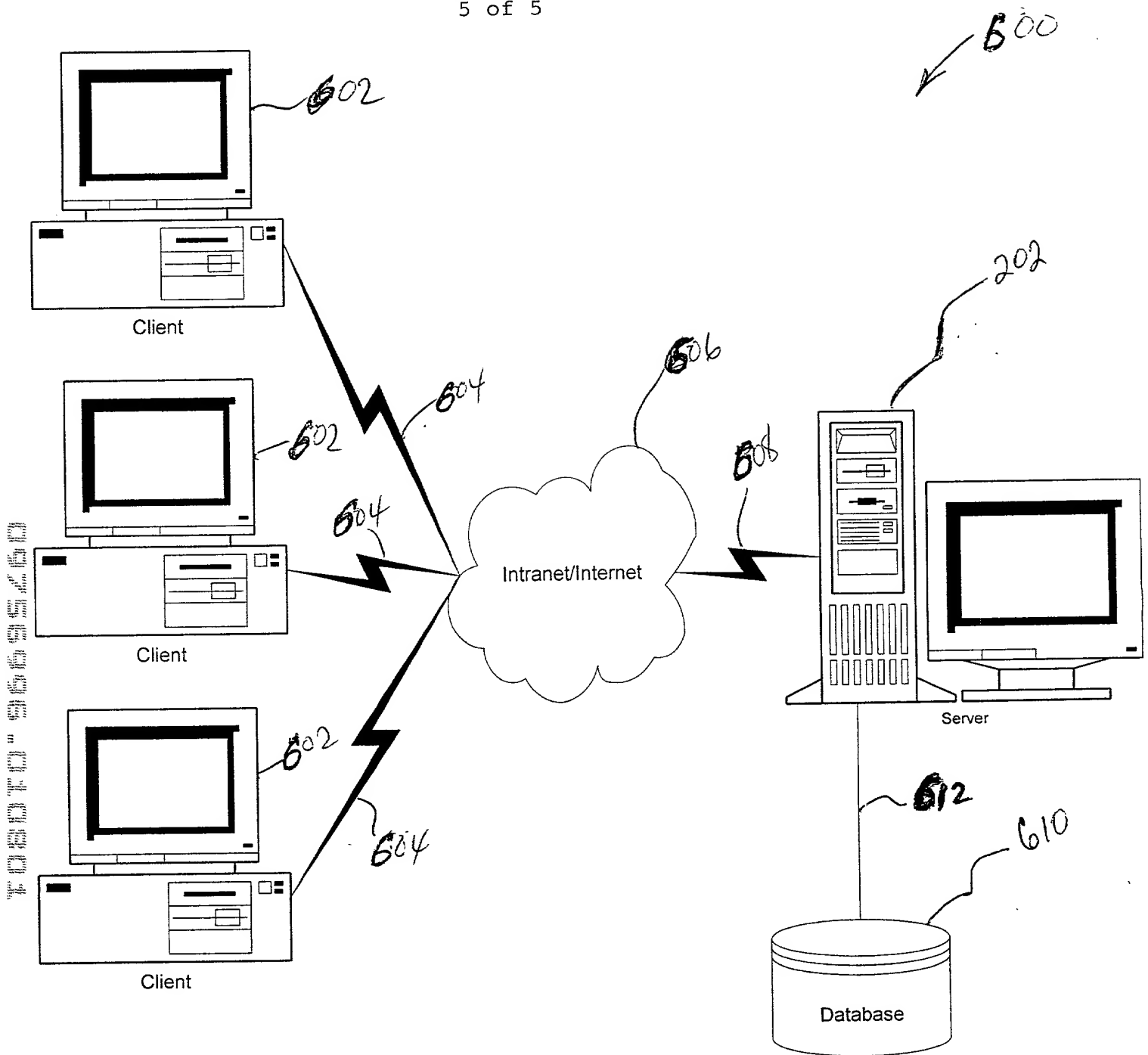


FIGURE 6